PROJECT DESCRIPTION

THIS PORTION OF THE PROJECT INVOLVES THE FULL RECONSTRUCTION OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF US 40 (BALTIMORE NATIONAL PIKE) & JOHNNYCAKE RD/ACADEMY RD. THIS PROJECT IS LOCATED IN BALTIMORE COUNTY, MARYLAND. VIDEO DETECTION IS PROPOSED FOR MAINLINE LEFT TURN. SAMPLING DETECTION FOR WB & EB US 40, AND SIDE STREET PRESENCE DETECTION.

US 40 (BALTIMORE NATIONAL PIKE) IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

II. INTERSECTION OPERATION

- 1. THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA SIX PHASE, FULL-TRAFFIC-ACTUATED MODE WITH THE MAINLINE (US 40) APPROACHES RUNNING CURRENTLY. EXCLUSIVE LEFT TURNS WILL BE PROVIDED FOR US 40 APPROACHES. THE SIDE STREET (JOHNNYCAKE RD/ACADEMY RD) APPROACHES WILL OPERATE IN A SPLIT PHASE. PEDESTRIAN PHASING IS PROVIDED ACROSS THE NORTH, SOUTH, AND WEST LEGS OF THE INTERSECTION.
- 2. THE INTERSECTION WILL OPERATE AS PART OF AN INTERCONNECT SYSTEM BETWEEN INGLESIDE AVE AND COLERIDE RD USING 12 PAIR COMMUNICATION CABLE. THE SYSTEM CABINET IS LOCATED AT JOHNNYCAKE RD.
- 3. INSTALL A FULLY-TRAFFIC-ACTUATED EIGHT PHASE TRAFFIC SIGNAL CONTROLLER WITH A VIDEO DETECTION INTERFACE, 2-WIRE CENTRAL CONTROL UNIT ISOLATION BOARD, TELEMETRY EQUIPMENT, FOUR CHANNEL LOOP DETECTOR AMPLIFIER, TRAFFIC RESPONSIVE MASTER CONTROLLER, AND ASSOCIATED HARNESS HOUSED IN A NEMA SIZE 6 BASE MOUNTED CABINET.

III. SPECIAL NOTES

UPON COMPLETION OF THIS PROJECT THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT 410-787-7635 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE, AND TELEPHONE NUMBER.

TYPICAL MESSAGES FOR ACCESSIBLE PED SIGNALS:

US 40 (BALTIMORE NATIONAL PIKE) AND JOHNNYCAKE RD/ACADEMY RD

- 1) US 40 (BALTIMORE NATIONAL PIKE) AND JOHNNYCAKE RD/ACADEMY RD WEST LEG <u>STREET AT</u> 90 DEGREES WAIT: "WAIT TO CROSS BALTIMORE NATIONAL PIKE AT JOHNNYCAKE AND ACADEMY, SECOND PUSHBUTTON IN MEDIAN, WAIT"* WALK: RAPID TICK
- 2) US 40 (BALTIMORE NATIONAL PIKE) AND JOHNNYCAKE RD/ACADEMY RD WEST LEG STREET AT 90DEGREES WAIT: "WAIT TO CROSS BALTIMORE NATIONAL PIKE AT JOHNNYCAKE AND ACADEMY WAIT"*
- WALK: RAPID TICK 3) JOHNNYCAKE RD AND US 40 (BALTIMORE NATIONAL PIKE) - NORTH LEG STREET AT 90DEGREES
- WAIT: "WAIT TO CROSS JOHNNYCAKE AT BALTIMORE NATIONAL PIKE, WAIT"* WALK: RAPID TICK 4) ACADEMY RD AND US 40 (BALTIMORE NATIONAL PIKE) & - SOUTH LEG
- STREET AT 90DEGREES
 WAIT: "WAIT TO CROSS ACADEMY AT BALTIMORE NATIONAL PIKE, WAIT"* WALK: RAPID TICK

* MESSAGE USED IF DISTANCE FROM THE NEAREST PUSHBUTTON FOR PERPENDICULAR CROSSING IS < 10 FT ** MESSAGE USED IF CROSSING WALK DIVERGES FROM OR CONVERGES WITH PARALLEL TRAFFIC NOTE: MESSAGES FOR INTERSECTION CONFIGURATIONS, VARYING FROM THE ABOVE ARE TO BE APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.

PROJECT CONTACTS

THE FOLLOWING CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

MS. ERIN KUHN ASSISTANT DISTRICT ENGINEER, TRAFFIC 410-229-2381

410-229-2421

MR. DONALD SCHAFFER ASSISTANT DISTRICT ENGINEER, CONSTRUCTION

MR. ANDRE FUTRELL ASSISTANT DISTRICT ENGINEER, MAINTENANCE 410-229-2361

MR. ROBERT SNYDER ASSISTANT CHIEF, TRAFFIC OPERATIONS DIVISION 410-787-7631

MR. MICHAEL PASQUARIELLO DISTRICT UTILITY ENGINEER 410-229-2341

MR. RICHARD DAFF SR. CHIEF, TRAFFIC OPERATIONS DIVISION 410-787-7630

MR. EDWARD RODENHIZER SUPERVISOR, SIGNAL OPERATIONS 410-787-7652

THE POWER COMPANY REPRESENTATIVE IS:

BALTIMORE GAS & ELECTRIC 1068 N, FRONT STREET, ROOM 501, PO BOX 1475 BALTIMORE, MD 21203-1475 410-637-8713

EQUIPMENT LIST A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION

CATEGORY CODE NO. DESCRIPTION UNITS QUANTITY 971017 EIGHT PHASE (FULLY ACTUATED) CONTROLLER AND CABINET- BASE MOUNT EΑ FOUR CHANNEL LOOP DETECTOR AMPLIFIER, RACK MOUNT 900000 VIDEO INTERFACE EQUIPMENT SHEET ALUMINUM SIGN MAST ARM/POLE MOUNTED: 973023 EΑ - 4 EACH M1-5(6) (24" \times 48") "WEST, US 40, RIGHT ARROW" 86.2 M1-5(6) (24" \times 48") "EAST, US 40, RIGHT ARROW" M1-5(6) (36" \times 72") "WEST, US 40, LEFT ARROW" M1-5(6) (36" x 72") "EAST, US 40, LEFT ARROW" - 4 EACH D-3(1) (60" \times 16") "STREET NAME SIGN" - 4 EACH R10-3(1) (9" x 15") "PUSH BUTTON TO CROSS BALTIMORE NATIONAL PIKE" - 2 EACH R10-3(1) (9" \times 15") "PUSH BUTTON TO CROSS ACADEMY RD" - 2 EACH R10-3(1) (9" imes 15") "PUSH BUTTON TO CROSS JOHNNY CAKE RD" SHEET ALUMINUM SIGN GROUND MOUNTED: 241 - 11 EACH S1~1 (36" \times 36"), W16- 7P L(30" \times 18") -6 EACH S1-1 (36" x 36"), W16- 7P R(30" x 18") -1 EACH W4-1R (36" \times 36") - 1 EACH R2-1 (36" x 36") -1 EACH R5-1 (30" x 30") TRAFFIC RESPONSIVE MASTER CONTROLLER AND CABINET - BASE MOUNTED

B. EQUIPMENT TO BE FURNISHED BY THE CONTRACTOR

CODE NO. DESCRIPTION UNITS CUANTITY	CATEGORY			
807202 METERED SERVICE PEDESTAL 810010 ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 A.W.G.) THHN / THWN 1055 MICROLOOP PROBE, 1000 FOOT LEAD IN CABLE 811001 FURNISH AND INSTALL ELECTRICAL HANDHOLE 811002 REMOVE ELECTRICAL HANDHOLE 813014 INSTALL GROUND MOUNTED SIGN 813015 INSTALL OVERHEAD SIGN 816001 VIDEO DETECTION CAMERA 816001 VIDEO DETECTION CAMERA 816001 VIDEO DETECTION CABLE, 500 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER 818004 10' BREAKAWAY PEDESTAL POLE 818004 STEEL POLE WITH SINGLE 38 FOOT MAST ARM 818050 STEEL POLE WITH SINGLE 60 FOOT MAST ARM 818051 STEEL POLE WITH SINGLE 60 FOOT MAST ARM 818052 STEEL POLE WITH SINGLE 60 FOOT MAST ARM 818052 STEEL POLE WITH SINGLE 70 FOOT MAST ARM 818052 STEEL POLE WITH SINGLE 70 FOOT MAST ARM 860284 12 INCH LED VEHICULAR SIGNAL HEAD SECTION 861105 ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G.) 861107 ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.) 861108 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 861109 SAW CUT FOR SIGNAL (LOOP DETECTOR) 862102 SAW CUT FOR SIGNAL (LOOP DETECTOR)	CODE NO.	DESCRIPTION	UNITS	QUANTITY
807202 METERED SERVICE PEDESTAL 810010 ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 A.W.G.) THHN / THWN 15 ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 A.W.G.) THHN / THWN 15 MICROLOOP PROBE, 1000 FOOT LEAD IN CABLE 811001 FURNISH AND INSTALL ELECTRICAL HANDHOLE 813014 FURNISH AND INSTALL ELECTRICAL HANDHOLE 813014 INSTALL GROUND MOUNTED SIGN 85 241 813015 INSTALL OVERHEAD SIGN 85 86.2 816001 VIDEO DETECTION CAMERA 816010 CONTROL CABLE, 500 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER 818004 10' BREAKAWAY PEDESTAL POLE 818004 10' BREAKAWAY PEDESTAL POLE 818004 STEEL POLE WITH SINGLE 38 FOOT MAST ARM 818041 STEEL POLE WITH SINGLE 60 FOOT MAST ARM 818052 STEEL POLE WITH SINGLE 60 FOOT MAST ARM 818052 STEEL POLE WITH SINGLE 70 FOOT MAST ARM 818052 STEEL POLE WITH SINGLE 70 FOOT MAST ARM 860284 12 INCH LED VEHICULAR SIGNAL HEAD SECTION 86105 ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G.) 861107 ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.) 861108 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 861108 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 862102 SAW CUT FOR SIGNAL (LOOP DETECTOR)	120500	MAINTENANCE OF TRAFFIC	15	1
807202 METERED SERVICE PEDESTAL 810010 ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 A.W.G.) THHN / THWN 15 ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 A.W.G.) THHN / THWN 16 TO ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 A.W.G.) THHN / THWN 17 THWN 18 TO ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 A.W.G.) THHN / THWN 18 TO ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 A.W.G.) 19 ELECTRICAL CABLE - 1 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 11 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 12 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 13 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 14 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 15 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 16 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 17 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 18 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 18 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 19 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 20 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 20 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 20 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 20 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 20 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 20 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 21 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 22 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 23 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 24 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.)	203030	TEST PIT EXCAVATION	CY	8
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807202 METERED SERVICE PEDESTAL 810010 ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 A.W.G.) THHN / THWN 15 ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 A.W.G.) THHN / THWN 16 TO ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 A.W.G.) THHN / THWN 17 THWN 18 TO ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 A.W.G.) THHN / THWN 18 TO ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 A.W.G.) 19 ELECTRICAL CABLE - 1 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 11 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 12 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 13 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 14 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 15 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 16 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 17 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 18 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 18 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 19 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 20 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 20 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 20 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 20 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 20 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 20 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 21 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 22 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 23 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 24 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.)	800000	REMOVE AND DISPOSE OF EXISTING MATERIALS AND EQUIPMENT	ĹŚ	1
807202 METERED SERVICE PEDESTAL 810010 ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 A.W.G.) THHN / THWN 15 ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 A.W.G.) THHN / THWN 16 TO ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 A.W.G.) THHN / THWN 17 THWN 18 TO ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 A.W.G.) THHN / THWN 18 TO ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 A.W.G.) 19 ELECTRICAL CABLE - 1 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 11 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 12 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 13 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 14 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 15 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 16 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 17 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 18 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 18 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 19 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 20 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 20 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 20 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 20 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 20 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 20 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 21 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 22 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 23 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 24 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.)	800000	LED 16" COUNTDOWN PEDSTRIAN SIGNAL HEADS	FΔ	6
807202 METERED SERVICE PEDESTAL 810010 ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 A.W.G.) THHN / THWN 15 ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 A.W.G.) THHN / THWN 16 TO ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 A.W.G.) THHN / THWN 17 THWN 18 TO ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 A.W.G.) THHN / THWN 18 TO ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 A.W.G.) 19 ELECTRICAL CABLE - 1 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 11 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 12 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 13 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 14 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 15 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 16 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 17 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 18 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 18 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 19 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 20 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 20 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 20 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 20 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 20 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 20 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 21 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 22 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 23 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 24 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.)	800000	FURNISH AND INSTALL 2 WIRE CENTRAL CONTROL UNIT	FΑ	1
807202 METERED SERVICE PEDESTAL 810010 ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 A.W.G.) THHN / THWN 15 ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 A.W.G.) THHN / THWN 16 TO ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 A.W.G.) THHN / THWN 17 THWN 18 TO ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 A.W.G.) THHN / THWN 18 TO ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 A.W.G.) 19 ELECTRICAL CABLE - 1 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 10 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 11 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 12 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 13 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 14 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 15 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 16 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 17 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 18 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 18 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 19 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 20 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 20 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 20 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 20 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 20 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 20 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 21 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 22 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 23 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 24 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.)	801004	CONCRETE FOR SIGNAL FOUNDATION	ĈΥ	23
807202 METERED SERVICE PEDESTAL 810010 ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 A.W.G.) THHN / THWN 15 ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 A.W.G.) THHN / THWN 15 MICROLOOP PROBE, 1000 FOOT LEAD IN CABLE 811001 FURNISH AND INSTALL ELECTRICAL HANDHOLE 813014 FURNISH AND INSTALL ELECTRICAL HANDHOLE 813014 INSTALL GROUND MOUNTED SIGN 85 241 813015 INSTALL OVERHEAD SIGN 85 86.2 816001 VIDEO DETECTION CAMERA 816010 CONTROL CABLE, 500 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER 818004 10' BREAKAWAY PEDESTAL POLE 818004 10' BREAKAWAY PEDESTAL POLE 818004 STEEL POLE WITH SINGLE 38 FOOT MAST ARM 818041 STEEL POLE WITH SINGLE 60 FOOT MAST ARM 818052 STEEL POLE WITH SINGLE 60 FOOT MAST ARM 818052 STEEL POLE WITH SINGLE 70 FOOT MAST ARM 818052 STEEL POLE WITH SINGLE 70 FOOT MAST ARM 860284 12 INCH LED VEHICULAR SIGNAL HEAD SECTION 86105 ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G.) 861107 ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.) 861108 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 861108 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 862102 SAW CUT FOR SIGNAL (LOOP DETECTOR)	801106	WOOD SIGN SUPPORTS 4"X6"	ĹĖ	
807202 METERED SERVICE PEDESTAL 810010 ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 A.W.G.) THHN / THWN 15 ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 A.W.G.) THHN / THWN 15 MICROLOOP PROBE, 1000 FOOT LEAD IN CABLE 811001 FURNISH AND INSTALL ELECTRICAL HANDHOLE 813014 FURNISH AND INSTALL ELECTRICAL HANDHOLE 813014 INSTALL GROUND MOUNTED SIGN 85 241 813015 INSTALL OVERHEAD SIGN 85 86.2 816001 VIDEO DETECTION CAMERA 816010 CONTROL CABLE, 500 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER 818004 10' BREAKAWAY PEDESTAL POLE 818004 10' BREAKAWAY PEDESTAL POLE 818004 STEEL POLE WITH SINGLE 38 FOOT MAST ARM 818041 STEEL POLE WITH SINGLE 60 FOOT MAST ARM 818052 STEEL POLE WITH SINGLE 60 FOOT MAST ARM 818052 STEEL POLE WITH SINGLE 70 FOOT MAST ARM 818052 STEEL POLE WITH SINGLE 70 FOOT MAST ARM 860284 12 INCH LED VEHICULAR SIGNAL HEAD SECTION 86105 ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G.) 861107 ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.) 861108 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 861108 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 862102 SAW CUT FOR SIGNAL (LOOP DETECTOR)	802501	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	ĹF	
807202 METERED SERVICE PEDESTAL 810010 ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 A.W.G.) THHN / THWN 15 ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 A.W.G.) THHN / THWN 15 MICROLOOP PROBE, 1000 FOOT LEAD IN CABLE 811001 FURNISH AND INSTALL ELECTRICAL HANDHOLE 813014 FURNISH AND INSTALL ELECTRICAL HANDHOLE 813014 INSTALL GROUND MOUNTED SIGN 85 241 813015 INSTALL OVERHEAD SIGN 85 86.2 816001 VIDEO DETECTION CAMERA 816010 CONTROL CABLE, 500 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER 818004 10' BREAKAWAY PEDESTAL POLE 818004 10' BREAKAWAY PEDESTAL POLE 818004 STEEL POLE WITH SINGLE 38 FOOT MAST ARM 818041 STEEL POLE WITH SINGLE 60 FOOT MAST ARM 818052 STEEL POLE WITH SINGLE 60 FOOT MAST ARM 818052 STEEL POLE WITH SINGLE 70 FOOT MAST ARM 818052 STEEL POLE WITH SINGLE 70 FOOT MAST ARM 860284 12 INCH LED VEHICULAR SIGNAL HEAD SECTION 86105 ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G.) 861107 ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.) 861108 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 861108 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 862102 SAW CUT FOR SIGNAL (LOOP DETECTOR)	805011	1 INCH ELECTRICAL CONDUIT GALVANIZED SLEEVE	ĹF	
807202 METERED SERVICE PEDESTAL 810010 ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 A.W.G.) THHN / THWN 15 ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 A.W.G.) THHN / THWN 15 MICROLOOP PROBE, 1000 FOOT LEAD IN CABLE 811001 FURNISH AND INSTALL ELECTRICAL HANDHOLE 813014 FURNISH AND INSTALL ELECTRICAL HANDHOLE 813014 INSTALL GROUND MOUNTED SIGN 85 241 813015 INSTALL OVERHEAD SIGN 85 86.2 816001 VIDEO DETECTION CAMERA 816010 CONTROL CABLE, 500 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER 818004 10' BREAKAWAY PEDESTAL POLE 818004 10' BREAKAWAY PEDESTAL POLE 818004 STEEL POLE WITH SINGLE 38 FOOT MAST ARM 818041 STEEL POLE WITH SINGLE 60 FOOT MAST ARM 818052 STEEL POLE WITH SINGLE 60 FOOT MAST ARM 818052 STEEL POLE WITH SINGLE 70 FOOT MAST ARM 818052 STEEL POLE WITH SINGLE 70 FOOT MAST ARM 860284 12 INCH LED VEHICULAR SIGNAL HEAD SECTION 86105 ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G.) 861107 ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.) 861108 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 861108 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 862102 SAW CUT FOR SIGNAL (LOOP DETECTOR)	805118	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED	LF	
807202 METERED SERVICE PEDESTAL 810010 ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 A.W.G.) THHN / THWN 15 ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 A.W.G.) THHN / THWN 15 MICROLOOP PROBE, 1000 FOOT LEAD IN CABLE 811001 FURNISH AND INSTALL ELECTRICAL HANDHOLE 813014 FURNISH AND INSTALL ELECTRICAL HANDHOLE 813014 INSTALL GROUND MOUNTED SIGN 85 241 813015 INSTALL OVERHEAD SIGN 85 86.2 816001 VIDEO DETECTION CAMERA 816010 CONTROL CABLE, 500 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER 818004 10' BREAKAWAY PEDESTAL POLE 818004 10' BREAKAWAY PEDESTAL POLE 818004 STEEL POLE WITH SINGLE 38 FOOT MAST ARM 818041 STEEL POLE WITH SINGLE 60 FOOT MAST ARM 818052 STEEL POLE WITH SINGLE 60 FOOT MAST ARM 818052 STEEL POLE WITH SINGLE 70 FOOT MAST ARM 818052 STEEL POLE WITH SINGLE 70 FOOT MAST ARM 860284 12 INCH LED VEHICULAR SIGNAL HEAD SECTION 86105 ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G.) 861107 ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.) 861108 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 861108 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 862102 SAW CUT FOR SIGNAL (LOOP DETECTOR)	805125	2 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	
807202 METERED SERVICE PEDESTAL 810010 ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 A.W.G.) THHN / THWN 15 ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 A.W.G.) THHN / THWN 15 MICROLOOP PROBE, 1000 FOOT LEAD IN CABLE 811001 FURNISH AND INSTALL ELECTRICAL HANDHOLE 813014 FURNISH AND INSTALL ELECTRICAL HANDHOLE 813014 INSTALL GROUND MOUNTED SIGN 85 241 813015 INSTALL OVERHEAD SIGN 85 86.2 816001 VIDEO DETECTION CAMERA 816010 CONTROL CABLE, 500 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER 818004 10' BREAKAWAY PEDESTAL POLE 818004 10' BREAKAWAY PEDESTAL POLE 818004 STEEL POLE WITH SINGLE 38 FOOT MAST ARM 818041 STEEL POLE WITH SINGLE 60 FOOT MAST ARM 818052 STEEL POLE WITH SINGLE 60 FOOT MAST ARM 818052 STEEL POLE WITH SINGLE 70 FOOT MAST ARM 818052 STEEL POLE WITH SINGLE 70 FOOT MAST ARM 860284 12 INCH LED VEHICULAR SIGNAL HEAD SECTION 86105 ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G.) 861107 ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.) 861108 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 861108 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 862102 SAW CUT FOR SIGNAL (LOOP DETECTOR)	805135	3 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	120
807202 METERED SERVICE PEDESTAL 810010 ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 A.W.G.) THHN / THWN 15 ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 A.W.G.) THHN / THWN 15 MICROLOOP PROBE, 1000 FOOT LEAD IN CABLE 811001 FURNISH AND INSTALL ELECTRICAL HANDHOLE 813014 FURNISH AND INSTALL ELECTRICAL HANDHOLE 813014 INSTALL GROUND MOUNTED SIGN 85 241 813015 INSTALL OVERHEAD SIGN 85 86.2 816001 VIDEO DETECTION CAMERA 816010 CONTROL CABLE, 500 FOOT, VIDEO DETECTION CAMERA TO CONTROLLER 818004 10' BREAKAWAY PEDESTAL POLE 818004 10' BREAKAWAY PEDESTAL POLE 818004 STEEL POLE WITH SINGLE 38 FOOT MAST ARM 818041 STEEL POLE WITH SINGLE 60 FOOT MAST ARM 818052 STEEL POLE WITH SINGLE 60 FOOT MAST ARM 818052 STEEL POLE WITH SINGLE 70 FOOT MAST ARM 818052 STEEL POLE WITH SINGLE 70 FOOT MAST ARM 860284 12 INCH LED VEHICULAR SIGNAL HEAD SECTION 86105 ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G.) 861107 ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.) 861108 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 861108 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 862102 SAW CUT FOR SIGNAL (LOOP DETECTOR)	805140	4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	105
860292 CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE EA 7 861105 ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G.) LF 2261 861107 ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.) LF 1804 861108 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) LF 3592 862102 SAW CUT FOR SIGNAL (LOOP DETECTOR)	805160	1 INCH LIQUID-TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE	LF	10
860292 CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE EA 7 861105 ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G.) LF 2261 861107 ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.) LF 1804 861108 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) LF 3592 862102 SAW CUT FOR SIGNAL (LOOP DETECTOR)	807202	METERED SERVICE PEDESTAL	EΑ	1
860292 CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE EA 7 861105 ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G.) LF 2261 861107 ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.) LF 1804 861108 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) LF 3592 862102 SAW CUT FOR SIGNAL (LOOP DETECTOR)	810010	ELECTRICAL CABLE - 1 CONDUCTOR (NO. 4 A.W.G.) THHN / THWN	LF	15
860292 CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE EA 7 861105 ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G.) LF 2261 861107 ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.) LF 1804 861108 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) LF 3592 862102 SAW CUT FOR SIGNAL (LOOP DETECTOR)	810555	MICROLOOP PROBE, 1000 FOOT LEAD IN CABLE	EΑ	
860292 CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE EA 7 861105 ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G.) LF 2261 861107 ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.) LF 1804 861108 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) LF 3592 862102 SAW CUT FOR SIGNAL (LOOP DETECTOR)	811001	FURNISH AND INSTALL ELECTRICAL HANDHOLE	EΑ	8
860292 CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE EA 7 861105 ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G.) LF 2261 861107 ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.) LF 1804 861108 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) LF 3592 862102 SAW CUT FOR SIGNAL (LOOP DETECTOR)	811002	REMOVE ELECTRICAL HANDHOLE	EΑ	
860292 CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE EA 7 861105 ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G.) LF 2261 861107 ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.) LF 1804 861108 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) LF 3592 862102 SAW CUT FOR SIGNAL (LOOP DETECTOR)	813014	INSTALL GROUND MUUNTED SIGN	SF	
860292 CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE EA 7 861105 ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G.) LF 2261 861107 ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.) LF 1804 861108 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) LF 3592 862102 SAW CUT FOR SIGNAL (LOOP DETECTOR)	813015	INSTALL UVERHEAD SIGN	SF	
860292 CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE EA 7 861105 ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G.) LF 2261 861107 ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.) LF 1804 861108 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) LF 3592 862102 SAW CUT FOR SIGNAL (LOOP DETECTOR)	816001	VIDEU DETECTION CAMERA	EΑ	
860292 CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE EA 7 861105 ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G.) LF 2261 861107 ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.) LF 1804 861108 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) LF 3592 862102 SAW CUT FOR SIGNAL (LOOP DETECTOR)	816010	CUNTRUL CABLE, 500 FUUT, VIDEU DETECTION CAMERA TO CONTROLLER	ΕA	6
860292 CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE EA 7 861105 ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G.) LF 2261 861107 ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.) LF 1804 861108 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) LF 3592 862102 SAW CUT FOR SIGNAL (LOOP DETECTOR)	818004	TO BREAKAWAY PEDESTAL PULE	ΕA	8
860292 CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE EA 7 861105 ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G.) LF 2261 861107 ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.) LF 1804 861108 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) LF 3592 862102 SAW CUT FOR SIGNAL (LOOP DETECTOR)	818030	STEEL PULE WITH SINGLE SO FOOT MAST ARM	ΕA	1
860292 CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE EA 7 861105 ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G.) LF 2261 861107 ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.) LF 1804 861108 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) LF 3592 862102 SAW CUT FOR SIGNAL (LOOP DETECTOR)	818041	STEEL PULE WITH SINGLE BU FUUL MAST ARM	ĿΑ	1
860292 CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE EA 7 861105 ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G.) LF 2261 861107 ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.) LF 1804 861108 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) LF 3592 862102 SAW CUT FOR SIGNAL (LOOP DETECTOR)	818052	CROUND DOD - 7/4 INCLUDIANCTED V 40 FOOT LENGTH	ΕA	2
860292 CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE EA 7 861105 ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G.) LF 2261 861107 ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.) LF 1804 861108 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) LF 3592 862102 SAW CUT FOR SIGNAL (LOOP DETECTOR)	837001	TROUND RUD = 3/4 INCH DIAMETER X TO FUUT LENGTH	ΕA	
861105 ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.G.) 861107 ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.) 861108 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 862102 SAW CUT FOR SIGNAL (LOOP DETECTOR) LF 2261 1804 1805 1807	000204	TZ INCH LED VEHICULAR SIGNAL HEAD SECTION CHT CLEAN CALVANIZE AND CAD TDATETO CICNAL STRUCTURE	ŁΑ	46
861107 ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 A.W.G.) 861108 ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 A.W.G.) 862102 SAW CUT FOR SIGNAL (LOOP DETECTOR) LF 200			ΕA	2264
861108 ELECTRICAL CABLE — 7 CONDUCTOR (NO. 14 A.W.G.) 862102 SAW CUT FOR SIGNAL (LOOP DETECTOR) LF 200		FLECTRICAL CABLE - 2 CONDUCTOR (NO. 14 A.W.C.)	L ኮ	
862102 SAW CUT FOR SIGNAL (LOOP DETECTOR) LF 200			L.F	
OTTET THOUSE CLOTH THASE CLOCK ACTUATED / CONTROLLER AND CADINET - DASE MOUNT EA				200
	011717	THO THE EXOTO THASE TO DEET ACTUATED TO CONTROLLER AND CADINET BASE MODINT	LA	'

C. EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION. 7491 CONNELLEY DRIVE, HANDVER, MD 21076

ALL REMOVED SIGNAL MATERIALS ARE TO BECOME THE PROPERTY OF THE CONTRACTOR.

<u> KEY</u>

A,B,C,D,E,\7 CONDUCTOR ELECTRICAL CABLE F,G,H,I,J (NO. 14 A.W.G.)

K,L,M,N,O, \ 5 CONDUCTOR ELECTRICAL CABLE P,Q,R,S,T \ (NO. 14 A.W.G.)

U, V, W, X, Y, 2 CONDUCTOR ELECTRICAL CABLE

ee,ff, gg, hh, VIDEO DETECTION CABLE

- 1 CONDUCTOR (NO. 6 A.W.G.) STRANDED COPPER GROUND WIRE
- 12 PAIR INTERCONNECT CABLE (REFER TO INTERCONNECT PLANS FOR DETAILS AND INSTALLATION.)
- 3 WIRE 1 CONDUCTOR ELECTRICAL CABLE (NO. 4 A.W.G.)THHN/THWN

MICRO LOOP PROBE LEAD IN CABLE

- MICRO LOOP PROBE SET
- PROPOSED UNDERGROUND POWER SERVICE
- PROPOSED COMMUNICATION SERVICE
- + GROUND ROD

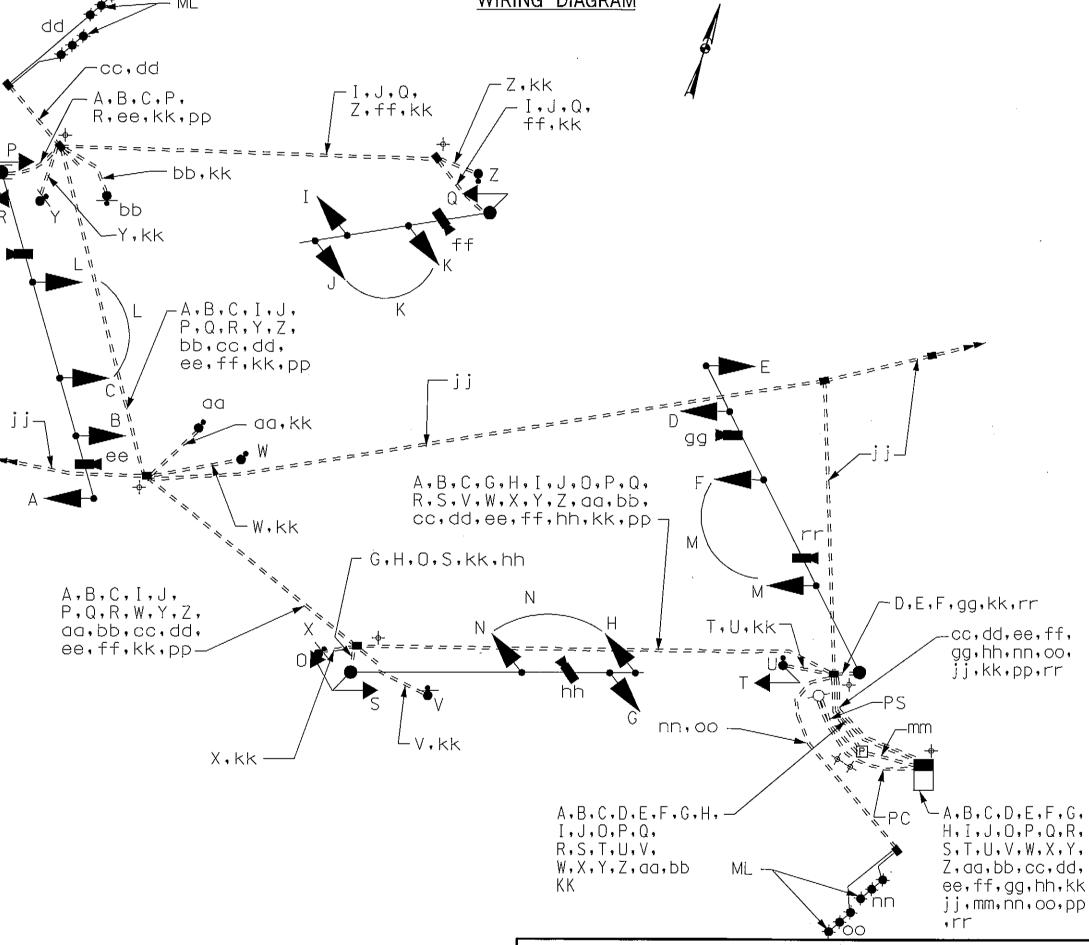
PHASE 1 AND 5 1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6 PHASE 1 AND 6 +G- | +G- | R DW DW DW DW DW DW D 1 AND 6 CHANGE G | ←R-| ←R-| R DW DW -PHASE 2 AND 5 2 AND 5 CHANGE +R-|+R-| R | R | +Y-|+Y-| G | G | R | R | R | R | R R DW DW DW DW PHASE 2 AND 6 PED CLEARANCE +R- | +R- | 2 AND 6 CHANGE Y R R R R R R R DW DW DW DW +R-|+R-| DW DW PHASE 3 DW 3 CHANGE PHASE 4 G DW DW | R | ←R-| ←R-| R | R | R | R | R | Y | Y | Y | DW || DW || DW || DW || DW || ▼ 4 CHANGE PHASE 4 ALT .|<mark>←G</mark>_| G | DW | DW | DW PED CLEARANCE $\left| \begin{array}{c} G \\ \leftarrow G \end{array} \right| \left| \begin{array}{c} G \\ \leftarrow G \end{array} \right| = \left| \begin{array}{c} G \\ \leftarrow G \end{array} \right| = \left| \begin{array}{c} G \\ \leftarrow G \end{array} \right| = \left| \begin{array}{c} G \\ \leftarrow G \end{array} \right| = \left| \begin{array}{c} G \\ \leftarrow G \end{array} \right| = \left| \begin{array}{c} G \\ \leftarrow G \end{array} \right| = \left| \begin{array}{c} G 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PHASE CHART

12 R Y

G G

13 (R) (Y)



TS NO. 887B

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY

TRAFFIC ENGINEERING DESIGN DIVISION US 40 (BALTIMORE NATIONAL PIKE) AND JOHNNYCAKE ROAD/ACADEMY ROAD

CATONSVILLE, MARYLAND

GENERAL INFORMATION PLAN

DRAWING SP-2 OF SP-2

SCALE NONE ADVERTISED DATE 9/2011 CONTRACT NO. BA8775177 DESIGNED BY _____K.J.S. COUNTY BALTIMORE DRAWN BY H.W.C. LOGMILE 03004003:22 CHECKED BY _____T.A.R. TIMS NO. TOD NO. _

SHEET NO. 27 OF 36

HUNT VALLEY, MARYLAND

PREPARED BY

PLOTTED: Oct 25, 2011 FILE: o:\20833006\CAD\Traffic\27-pSG-N004_US40,dgn